

ABSTRACT OF THE DISCLOSURE

To provide the ultrasonic-welding apparatus, which can attain the above-mentioned requirement, and which can automatically achieve both measurement of the face-deflection the work piece after welding and the welding of work pieces, such as a reel for a magnetic tape.

According to the present invention there is provided an ultrasonic-welding apparatus comprising; a cradle, onto which two work pieces of to be welded and welded to are mounted in piles, and which can rotate around the axis vertical to the welding surface of said work piece of to be welded; a welding hone, which carries out welding using a supersonic in the condition of having sandwiched the two work pieces between said cradle; and a transmission-type laser sensor which measures the fixed part of the work pieces after welding by the irradiation of the laser light which runs parallel to the welding surface, and the transmission-type laser sensor measure the fixed part of the work piece after welding, which is rotating on the cradle, in the condition that the welding hone is apart from the work piece of after welding.